

SYNCHRONIZATION DETECTION APPARATUS AND RECEIVING
APPARATUS AND METHODS OF THE SAME

ABSTRACT OF THE DISCLOSURE

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10 A synchronization detection apparatus able to
quickly detect synchronization words (synchronization
patterns) arranged at predetermined bit intervals in a
signal, provided with a synchronization word detector for
identifying data having the same number of bits as the
synchronization pattern in order while shifting positions
of data in the signal in units of bits and comparing the
identified data with a predetermined synchronization
pattern stored beforehand; a consecutive synchronization
15 word detection counter for establishing synchronization
using the identified data as the synchronization pattern
when all of the comparison results of a predetermined
number of data identified and arranged consecutively at
predetermined bit intervals are in agreement; a delay
20 unit; and a synchronization processing state judging
unit.